PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/014576 28.09.2004 09.10.2003 International Patent Classification (IPC) or both national classification and IPC H01M8/02 Applicant TOYOTA JIDOSHA KABUSHIKI KAISHA This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion ☐ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/014576

Box No. I Basis of the opinion	
With regard to the language, this opinion has been established the language in which it was filed, unless otherwise indicated to the language in which it was filed, unless otherwise indicated to the language.	ed on the basis of the international application in under this item.
This opinion has been established on the basis of a transl language , which is the language of a translation furnisl (under Rules 12.3 and 23.1(b)).	lation from the original language into the following hed for the purposes of international search
2. With regard to any nucleotide and/or amino acid sequence necessary to the claimed invention, this opinion has been esta	disclosed in the international application and ablished on the basis of:
a. type of material:	
☐ a sequence listing	
☐ table(s) related to the sequence listing	
b. format of material:	
☐ in written format	
☐ in computer readable form	
c. time of filing/furnishing:	
☐ contained in the international application as filed.	
☐ filed together with the international application in comp	uter readable form.
☐ furnished subsequently to this Authority for the purpose	es of search.
3. In addition, in the case that more than one version or copy has been filed or furnished, the required statements that the copies is identical to that in the application as filed or does appropriate, were furnished.	he information in the subsequent or additional
4. Additional comments:	

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-13

Inventive step (IS)

Yes: Claims

No: Claims

1-13

Industrial applicability (IA)

Yes: Claims

Claims

No:

1-13

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Cited documents

Reference is made to the following documents:

2 Novelty (Art. 33(2) PCT)

The present application relates to a seal structure for a fuel comprising an interrupted back-up disposed at least one of the connecting gas passage and the connecting coolant passage, said back-up located on one side of said separator and a portion of seal line located on the other side of said separator being disposed such that said back-up and said portion of said seal line are overlapped with each other in a fuel cell stacking direction.

D1 is prejudicial to the novelty of claims 1, 2, 4, 7, 8-10 (see fig. 2).

D2 is prejudicial to the novelty of claims 1, 2, 4, 7, 8-10 (see fig. 11, 12).

D3 is prejudicial to the novelty of claims 1-3, 5, 6, 10, 12 (see especially fig. 3d).

D4 is prejudicial to the novelty of claims 1-3, 5-13 (see especially fig. 3, 4, 8).

D5 is prejudicial to the novelty of claims 1-3, 5-12 (see especially fig. 6a).

D6 is prejudicial tot he novelty of claims 1-3, 5-12 (see fig. 3-5).

D7 is prejudicial to the novelty of claims 1-4,7-11 (see fig. 3).

The present application does not meet the requirements of Art. 33(2) PCT because

the subject-matter of claims 1-13 is not novel.

3 Inventive step (Art. 33(3) PCT)

The closest prior art is considered to be document D4.

The problem addressed in the present application is to be regarded as to provide an improved seal structure.

The present application does not meet the requirements of Art. 33(3) because the subject-matter of claims 1-13 is not novel and therefore not inventive.

4 Industrial applicability (Art. 33(4) PCT)

The subject-matter of claims 1-13 is considered to be industrially applicable.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1-D7 is not mentioned in the description, nor is this document identified therein.

Re Item VIII

Certain observations on the international application

The scope of claim 1 is unclear since claim goes beyond the scope of claim 1. The possibility that the back-up structure is formed in the separator is not included in claim 1.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2004/014576